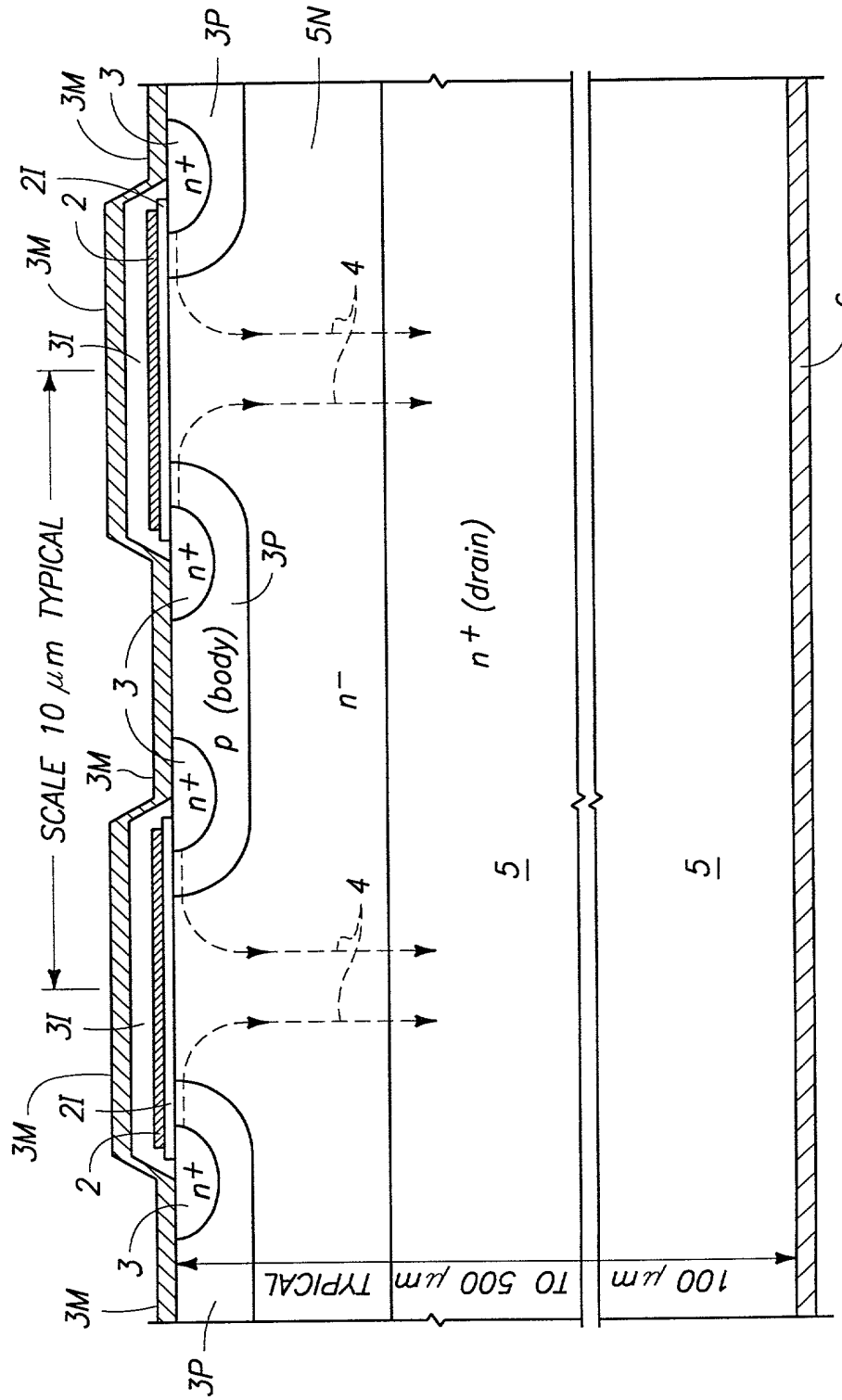


FIG II
PRIOR ART

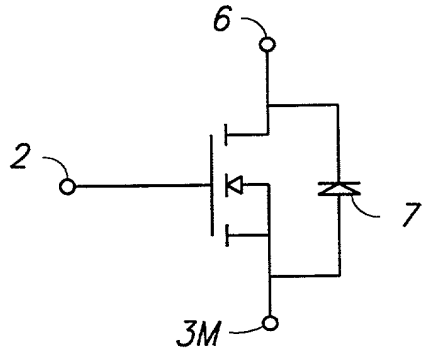


Fig 2
PRIOR ART

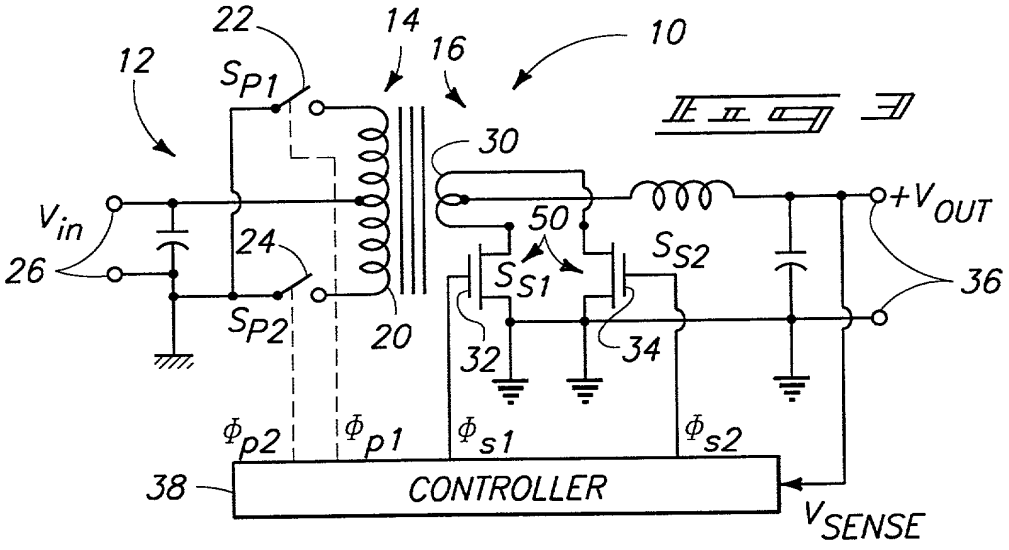


Fig 3

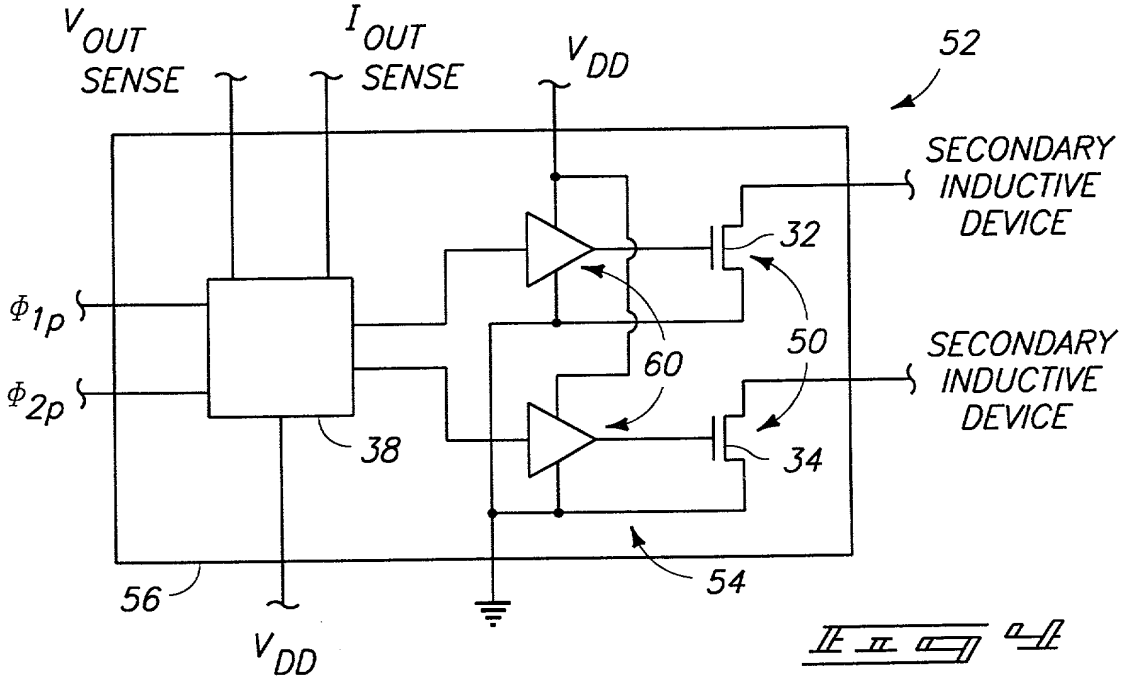


Fig 4

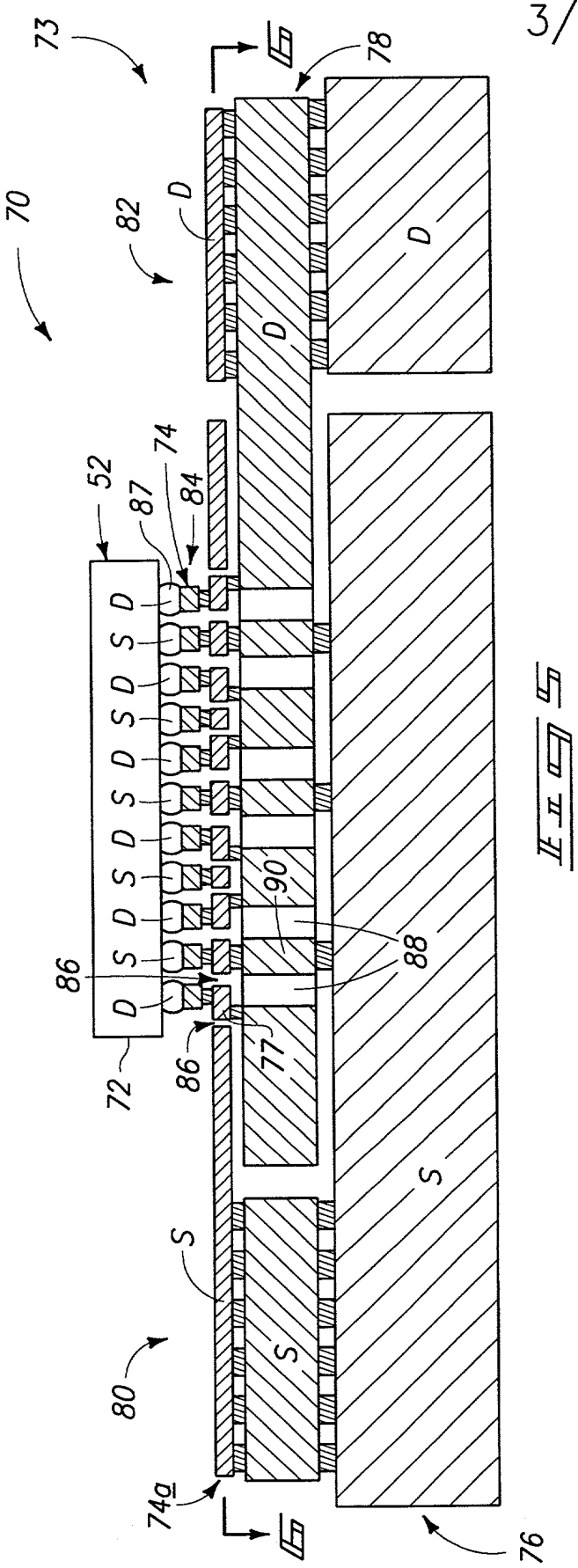


FIG. 3

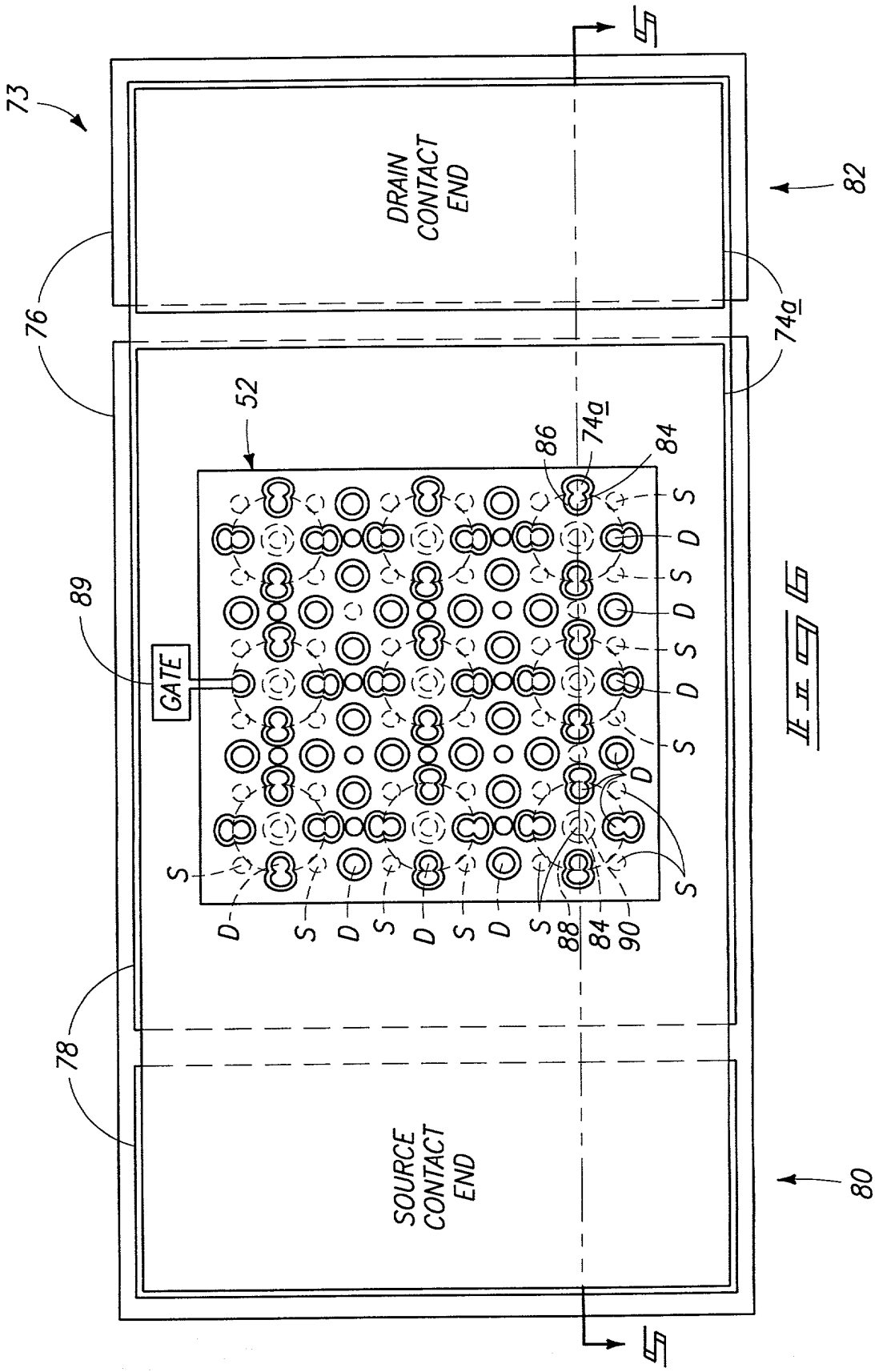

73
DRAIN CONTACT END
82
76
74a
52
86
74a
84
89
GATE
S D S D S D S
S
D
S
D
S
D
S
D
S
88
84
90
S
SOURCE CONTACT END
80
78

FIG 5

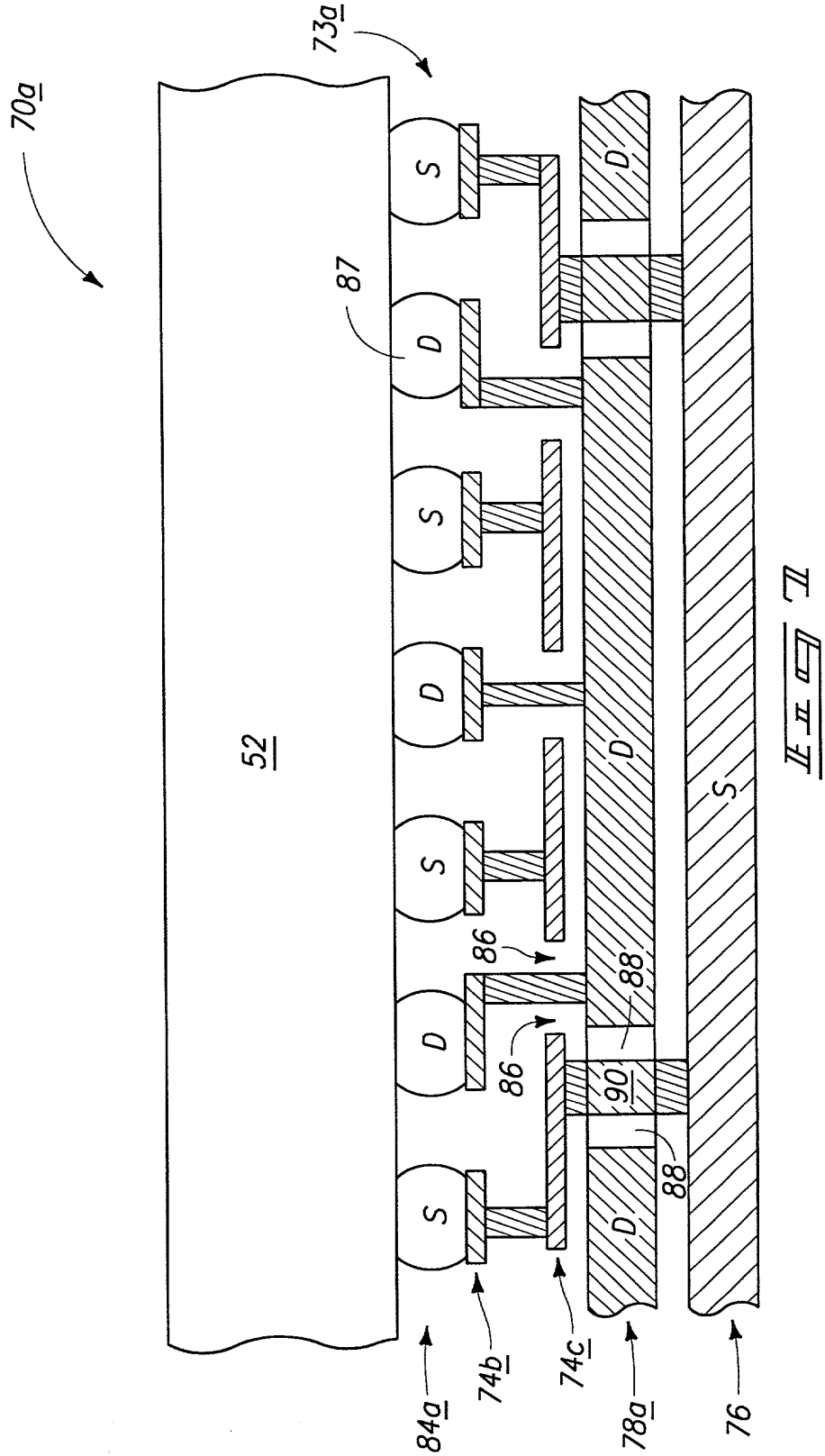
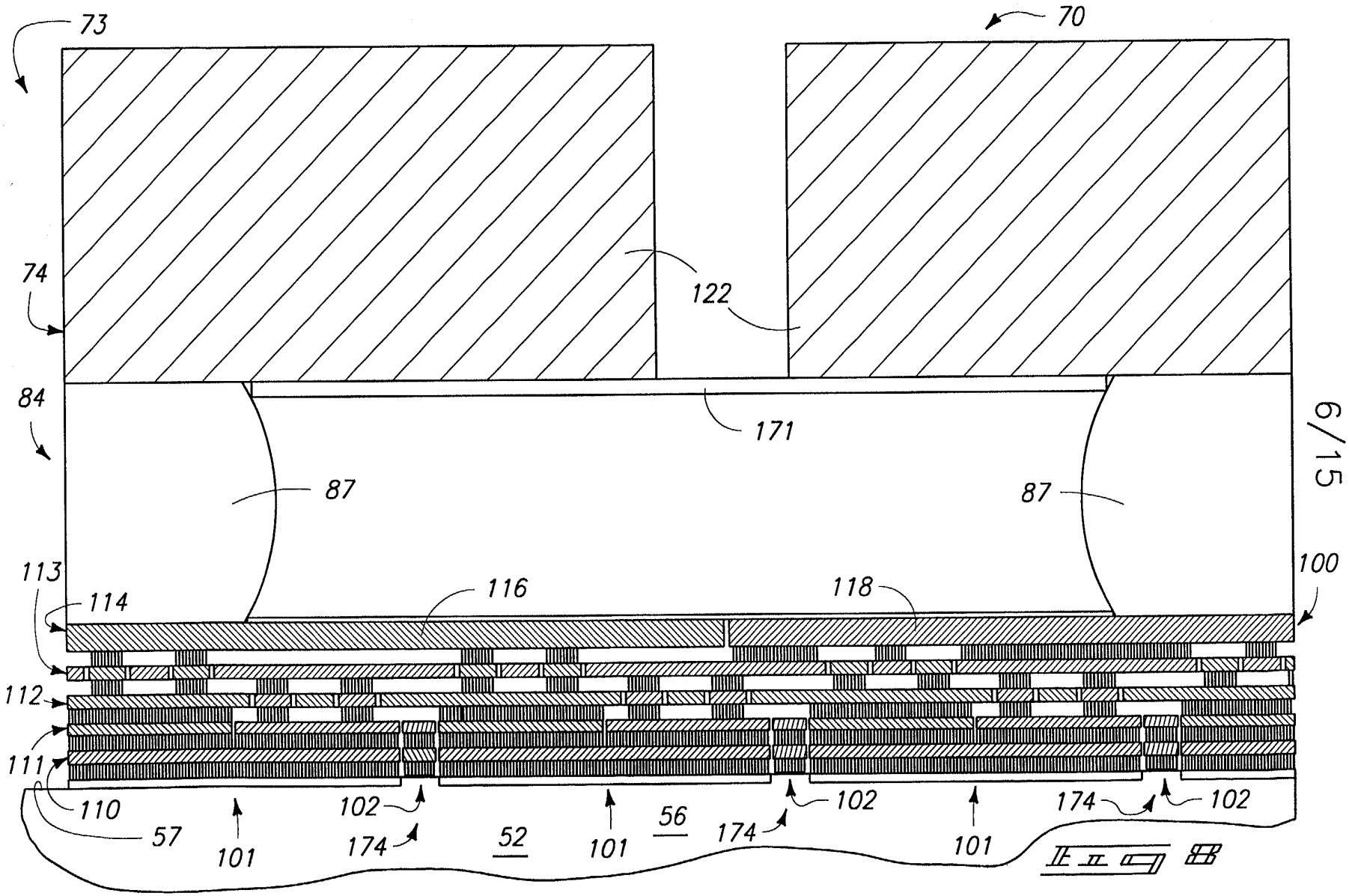


FIG. 3


73
70
74
122
84
171
87
87
113
114
116
118
100
112
111
110
57
101
102
174
52
101
56
174
102
101
174
102

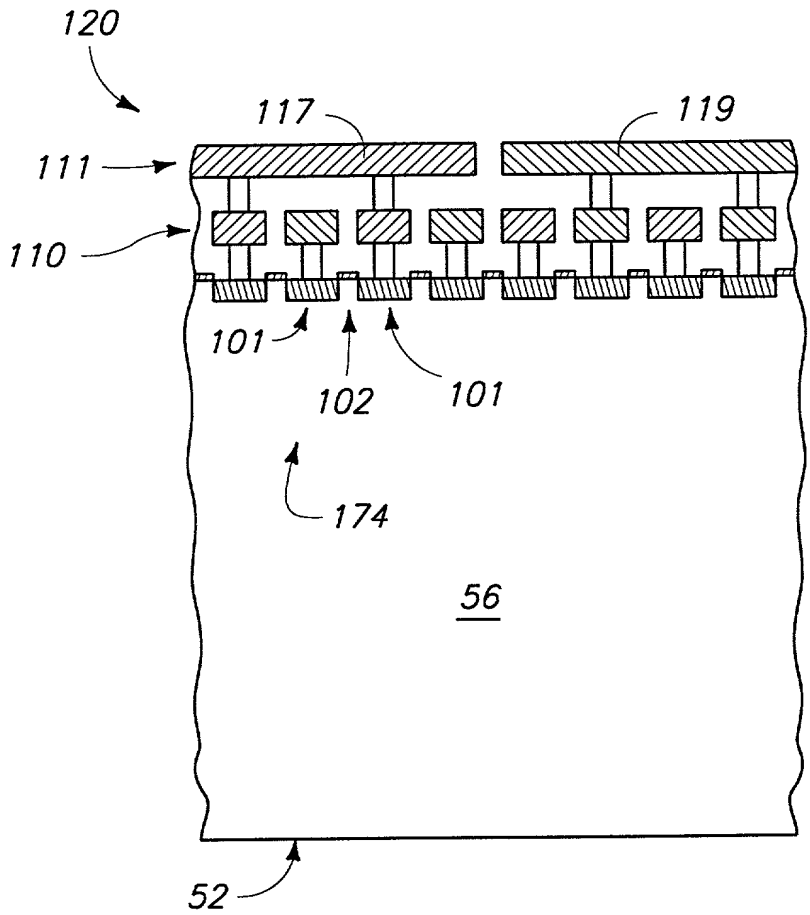
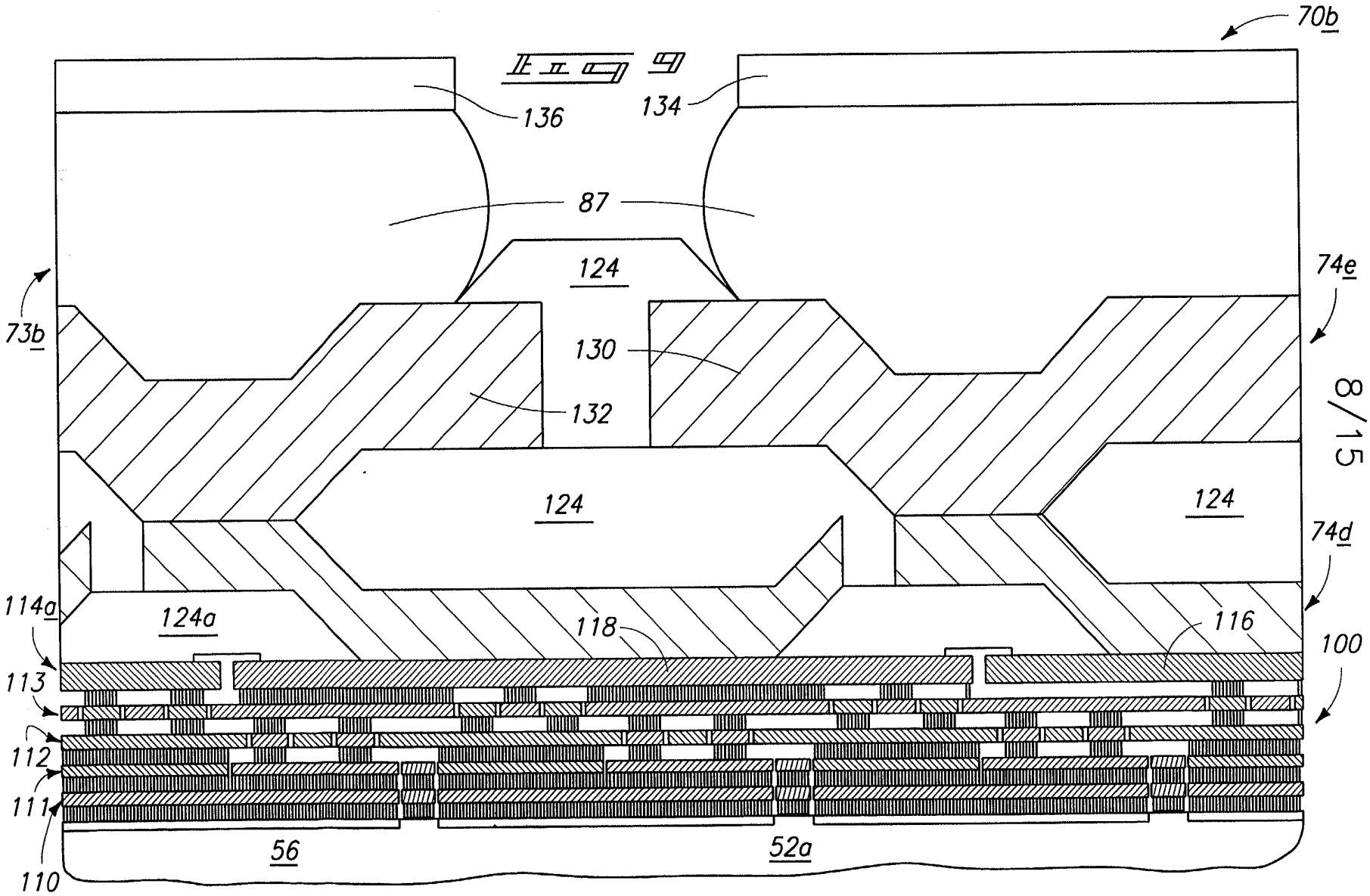


Fig 8A

T027/20 '82 Sh0660



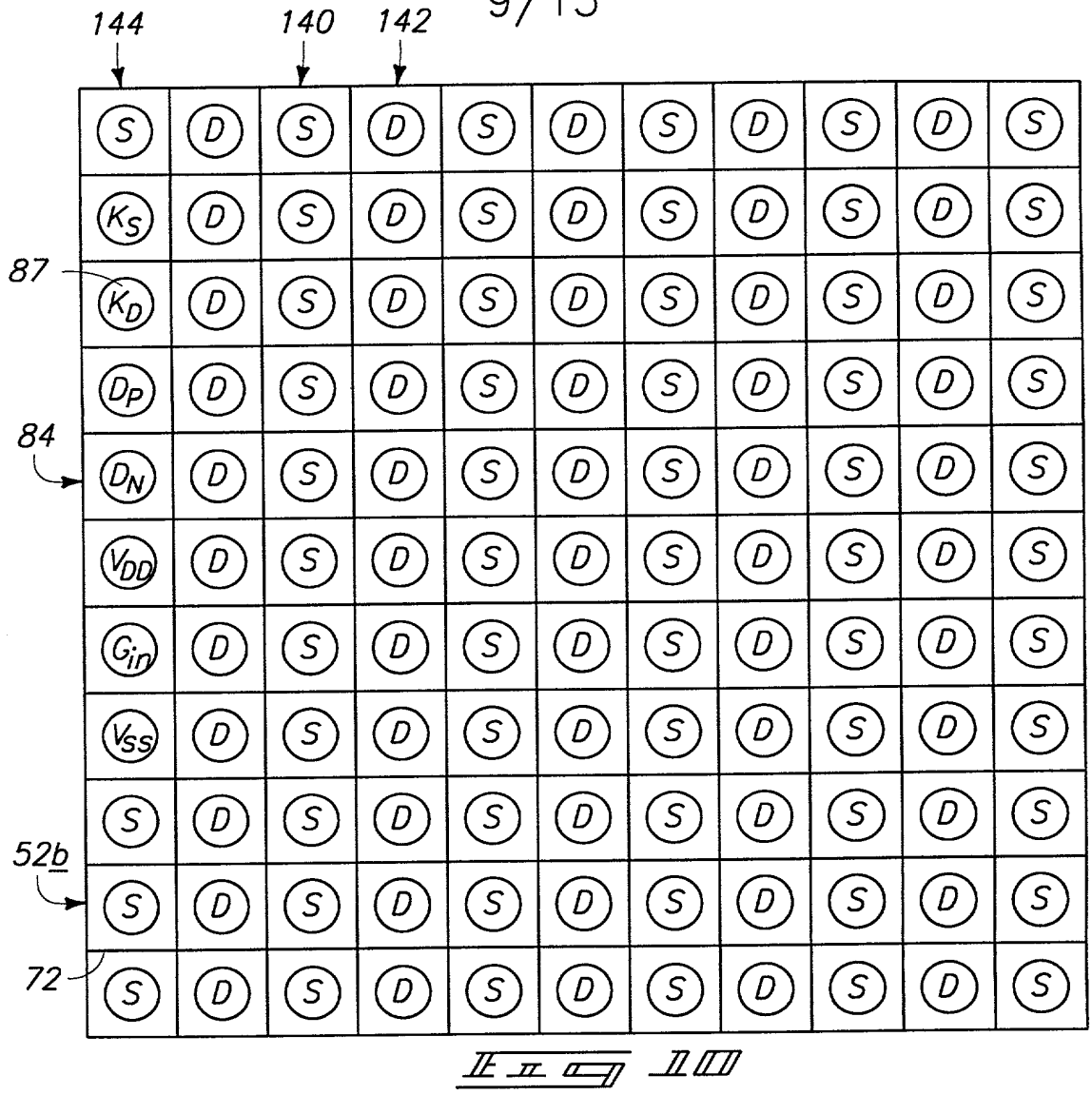

144
140
142
87
84
52b
72
S
D
K_S
K_D
D_P
D_N
V_{DD}
G_{in}
V_{SS}

Fig 10

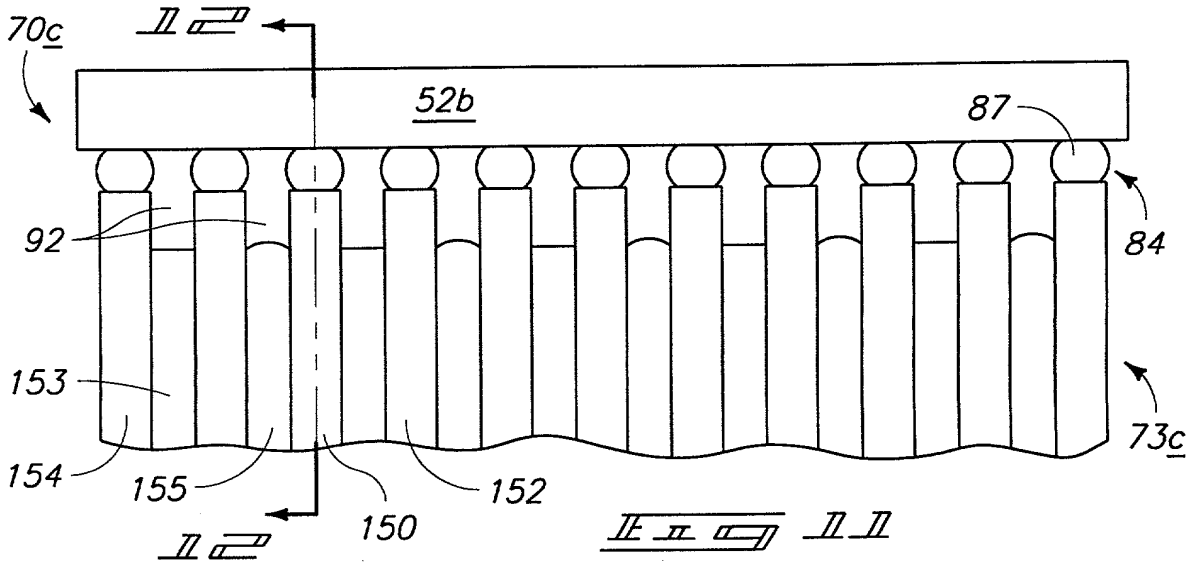

70c
52b
87
92
84
153
73c
154
155
150
152
12
12

Fig 11

TOETZO" 82Sh0660

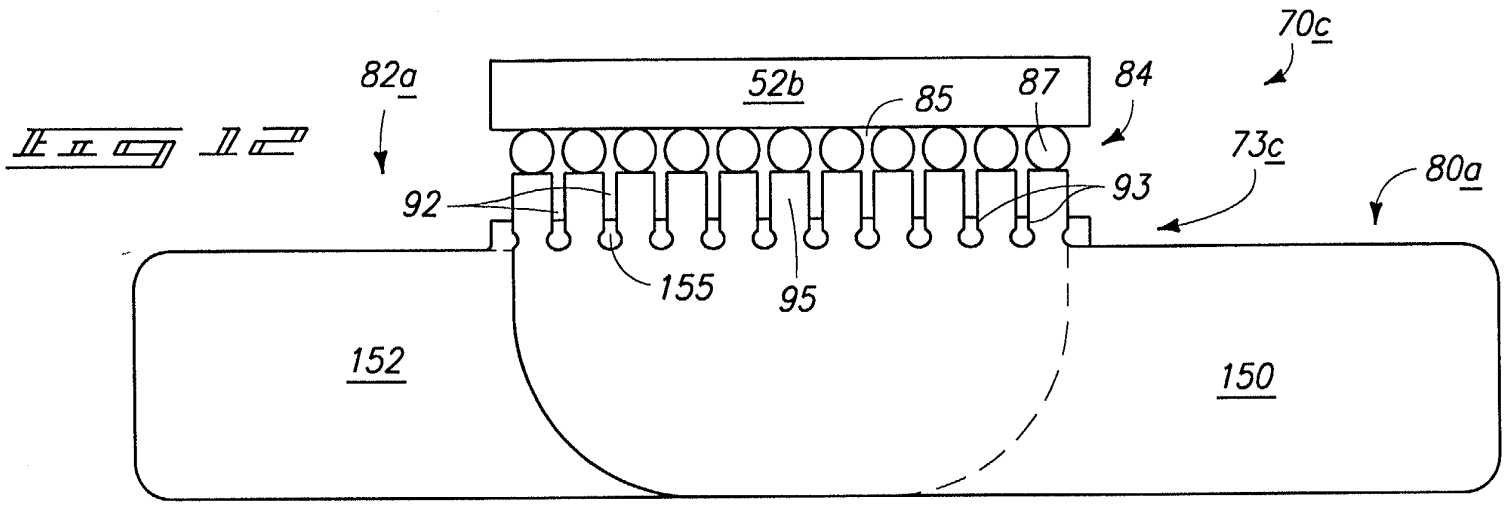


Fig 12

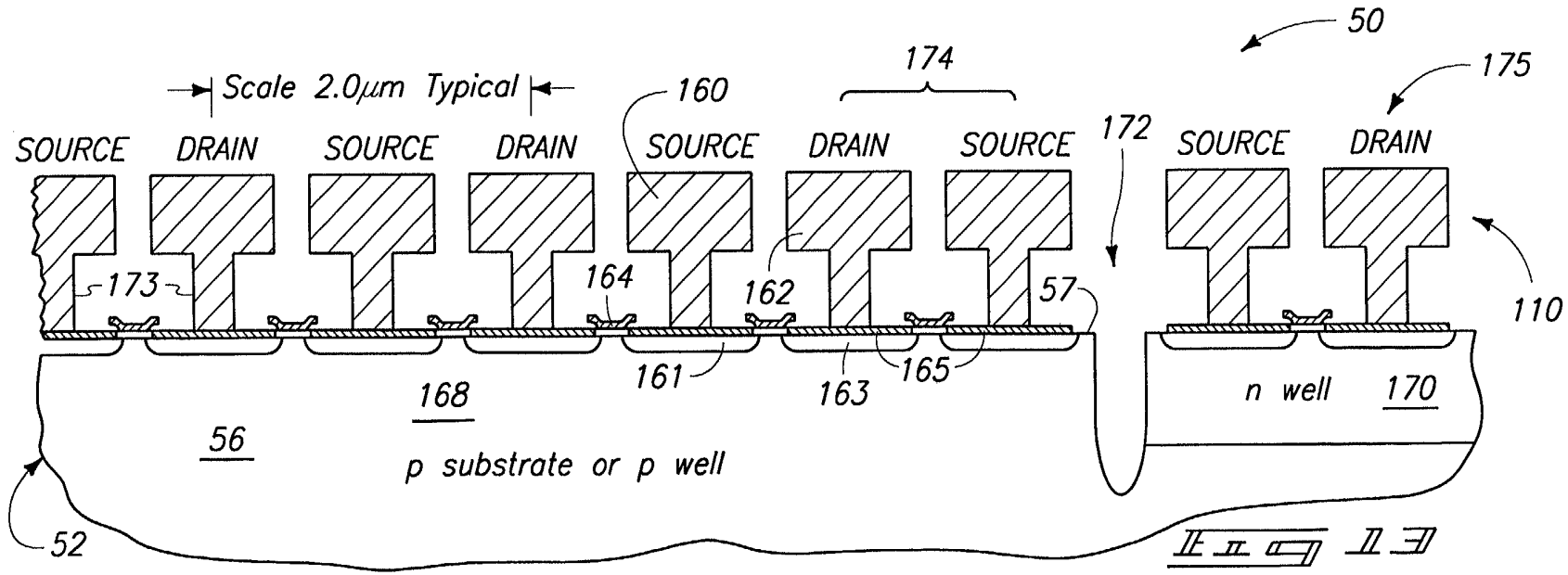


Fig 13

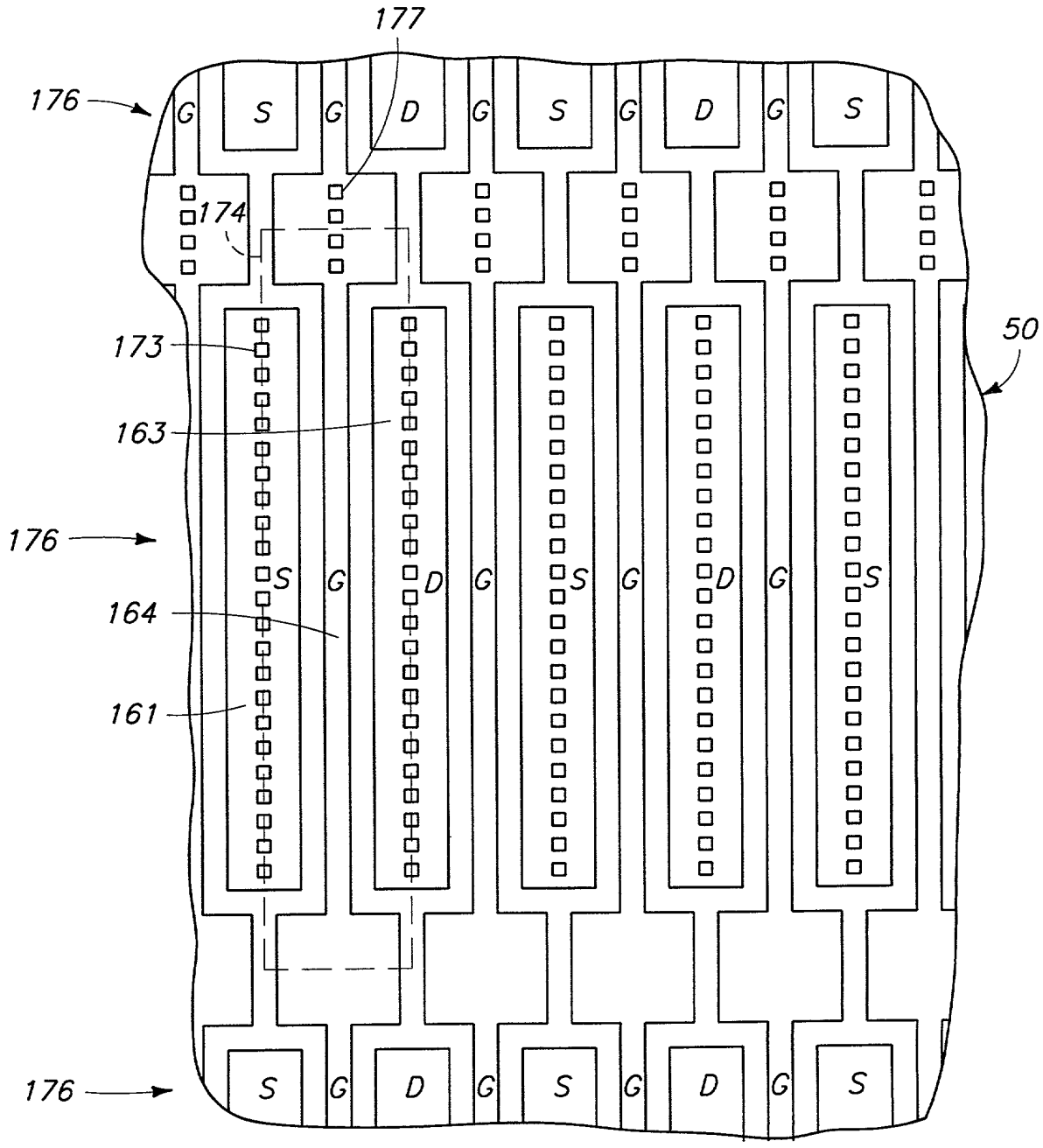

177
176
G
S
G
D
G
S
G
D
G
S
174
173
163
50
176
S
G
D
G
S
G
D
G
S
164
161
176
S
G
D
G
S
G
D
G
S

Fig 11a

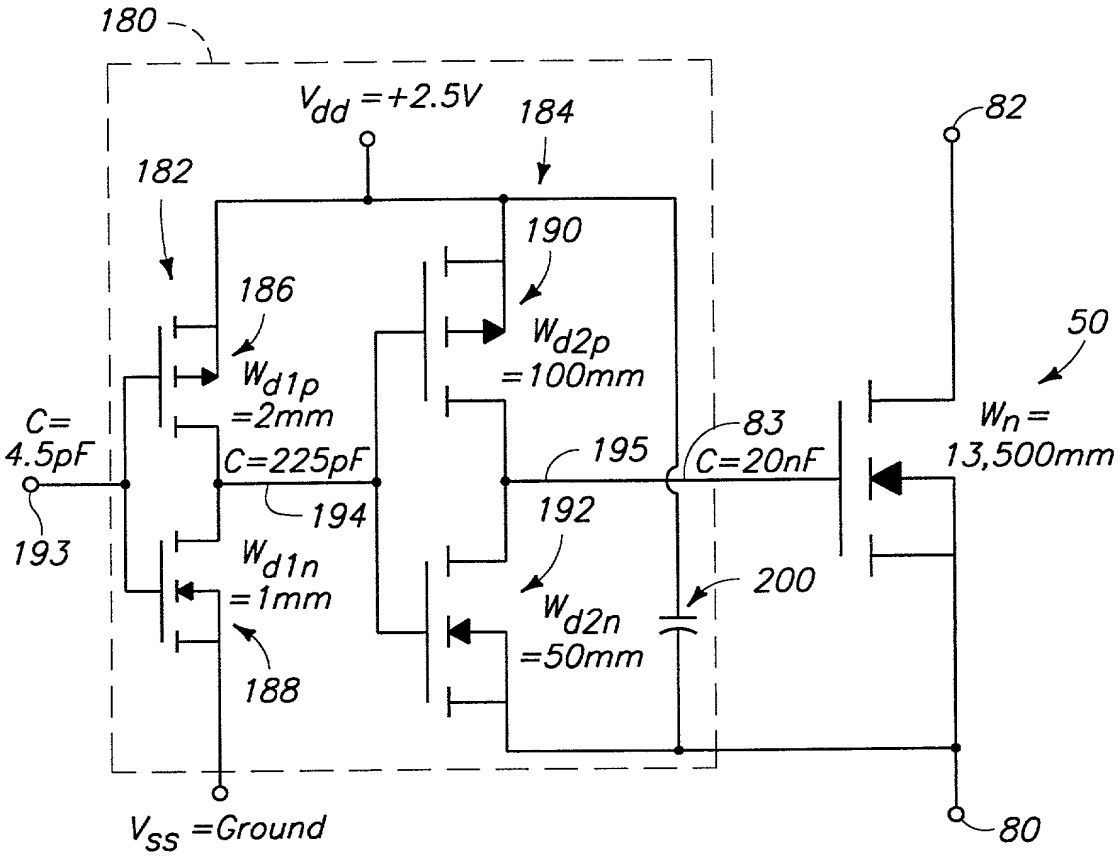

180
V_{dd} =+2.5V
184
82
182
190
186
W_{d2p}
=100mm
50
W_{d1p}
=2mm
C=
4.5pF
C=225pF
195
83
C=20nF
W_n=
13,500mm
194
192
193
W_{d1n}
=1mm
200
W_{d2n}
=50mm
188
V_{ss} =Ground
80

Fig 15

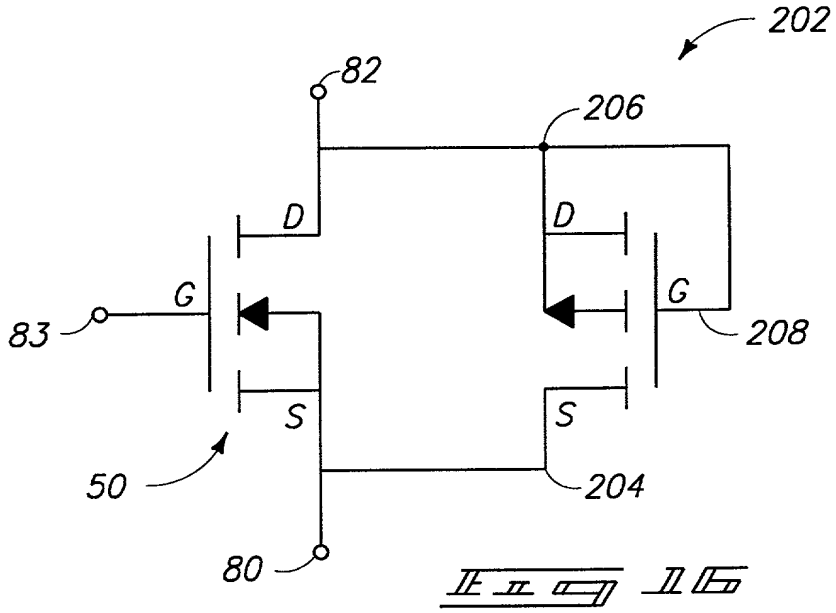

202
82
206
D
D
G
G
83
208
S
S
50
204
80

Fig 16

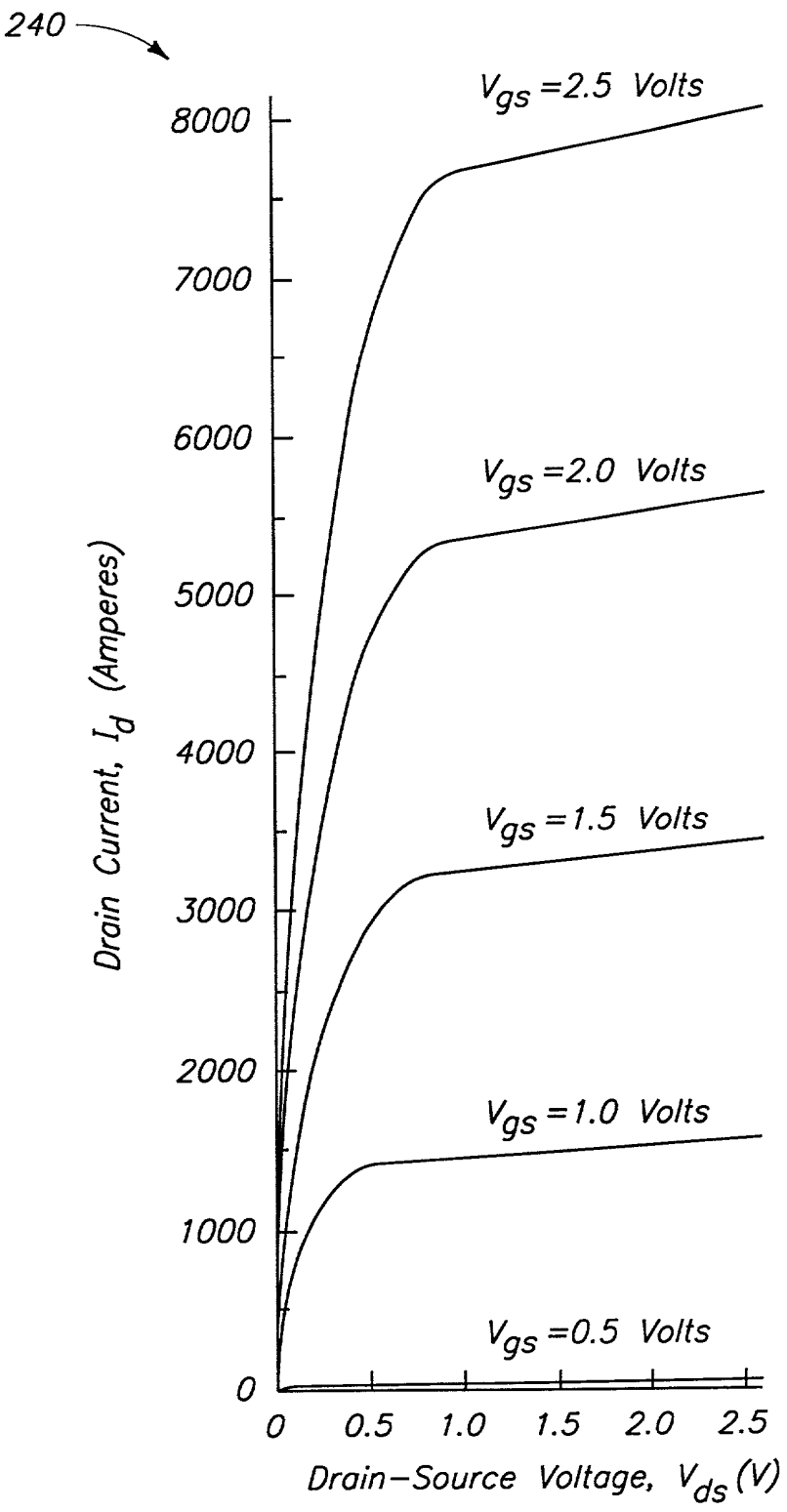

240
V_{gs} =2.5 Volts
V_{gs} =2.0 Volts
V_{gs} =1.5 Volts
V_{gs} =1.0 Volts
V_{gs} =0.5 Volts
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.5
1.0
1.5
2.0
2.5
Drain Current, I_d (Amperes)
Drain–Source Voltage, V_{ds} (V)

Fig 11

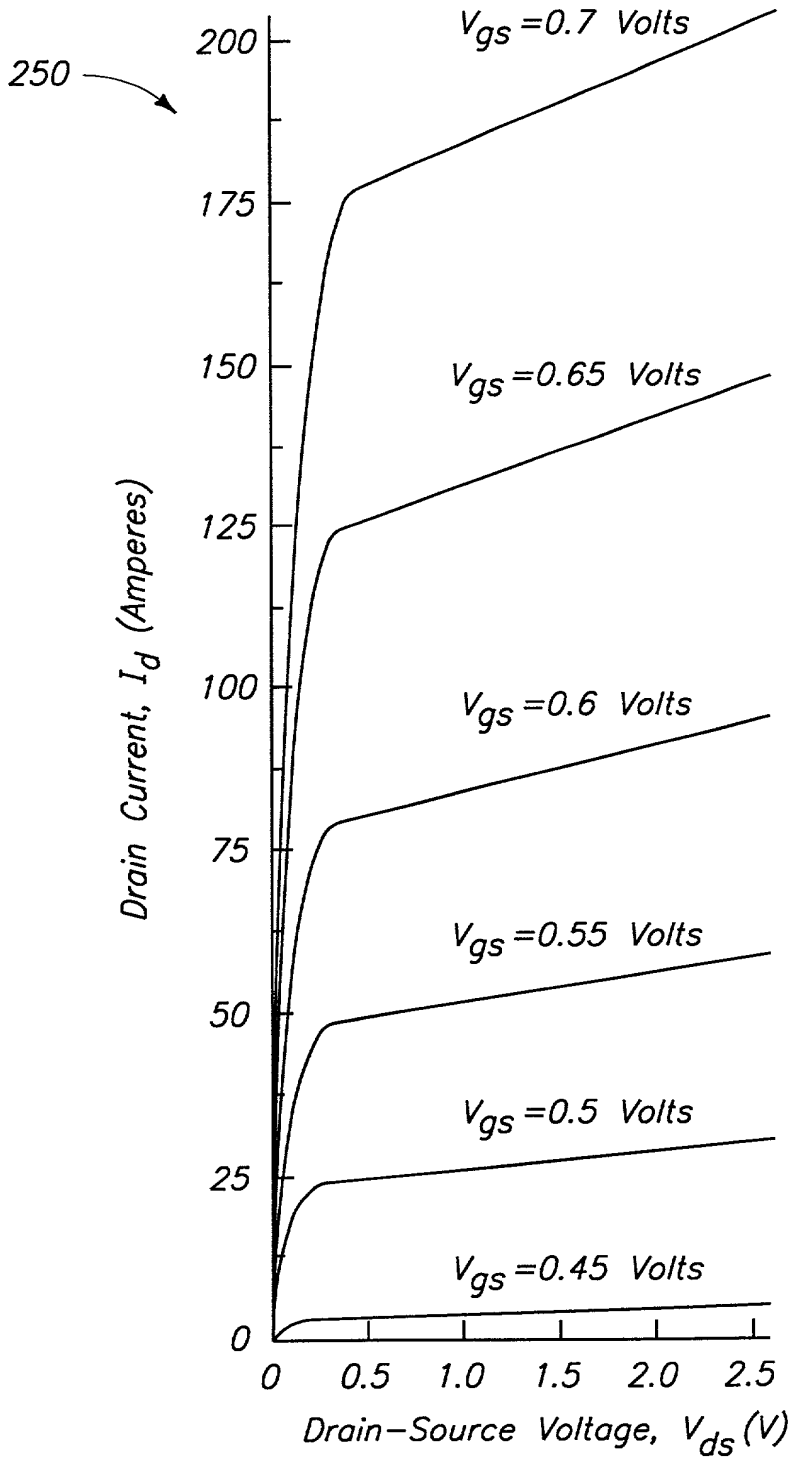

250
200
175
150
125
100
75
50
25
0
V_{gs} =0.7 Volts
V_{gs} =0.65 Volts
V_{gs} =0.6 Volts
V_{gs} =0.55 Volts
V_{gs} =0.5 Volts
V_{gs} =0.45 Volts
Drain Current, I_d (Amperes)
0
0.5
1.0
1.5
2.0
2.5
Drain-Source Voltage, V_{ds} (V)

Fig 11B

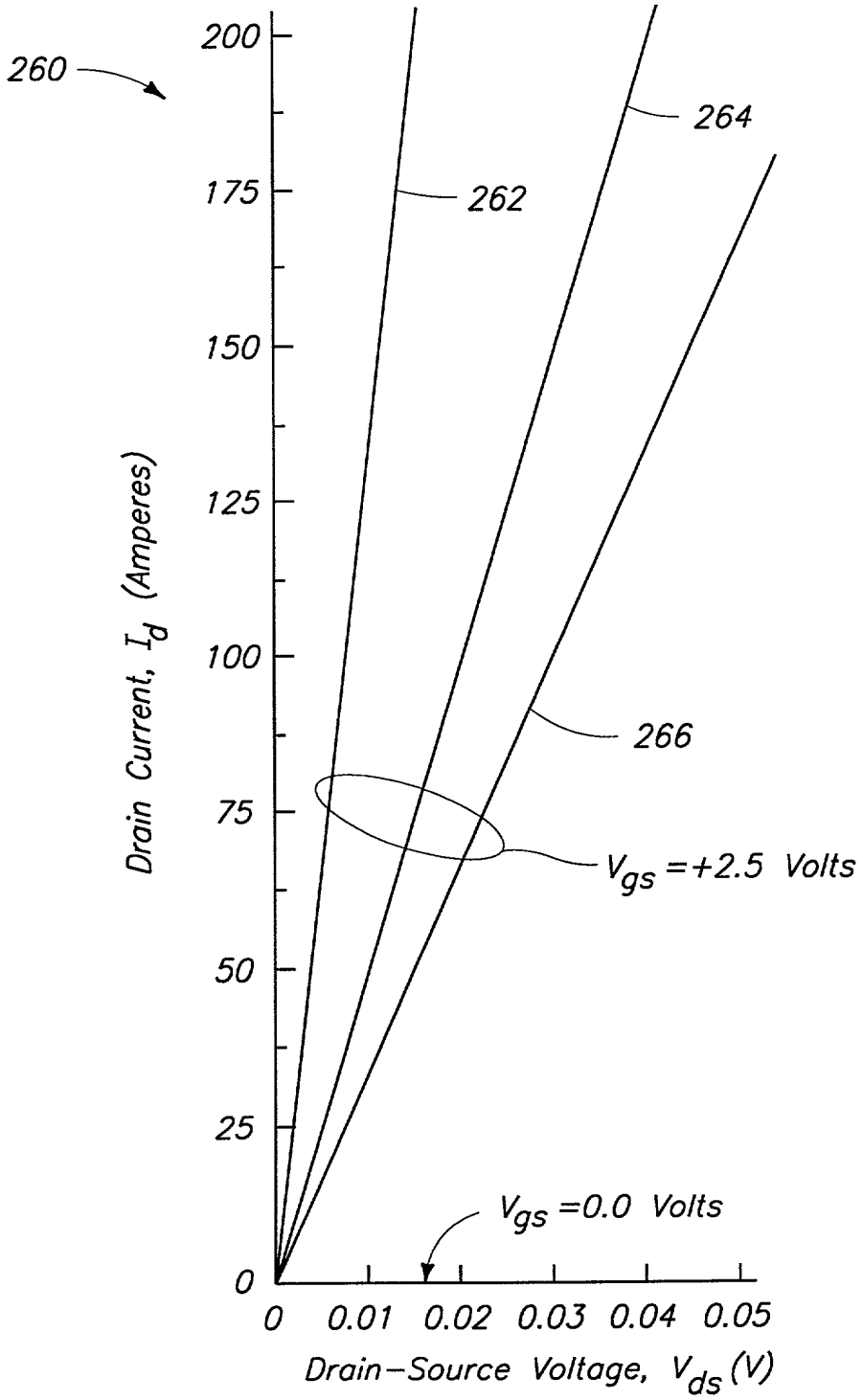

260
200
175
150
125
100
75
50
25
0
262
264
266
V_{gs} =+2.5 Volts
V_{gs} =0.0 Volts
Drain Current, I_d (Amperes)
0
0.01
0.02
0.03
0.04
0.05
Drain-Source Voltage, V_{ds} (V)

Fig 19